

1/20

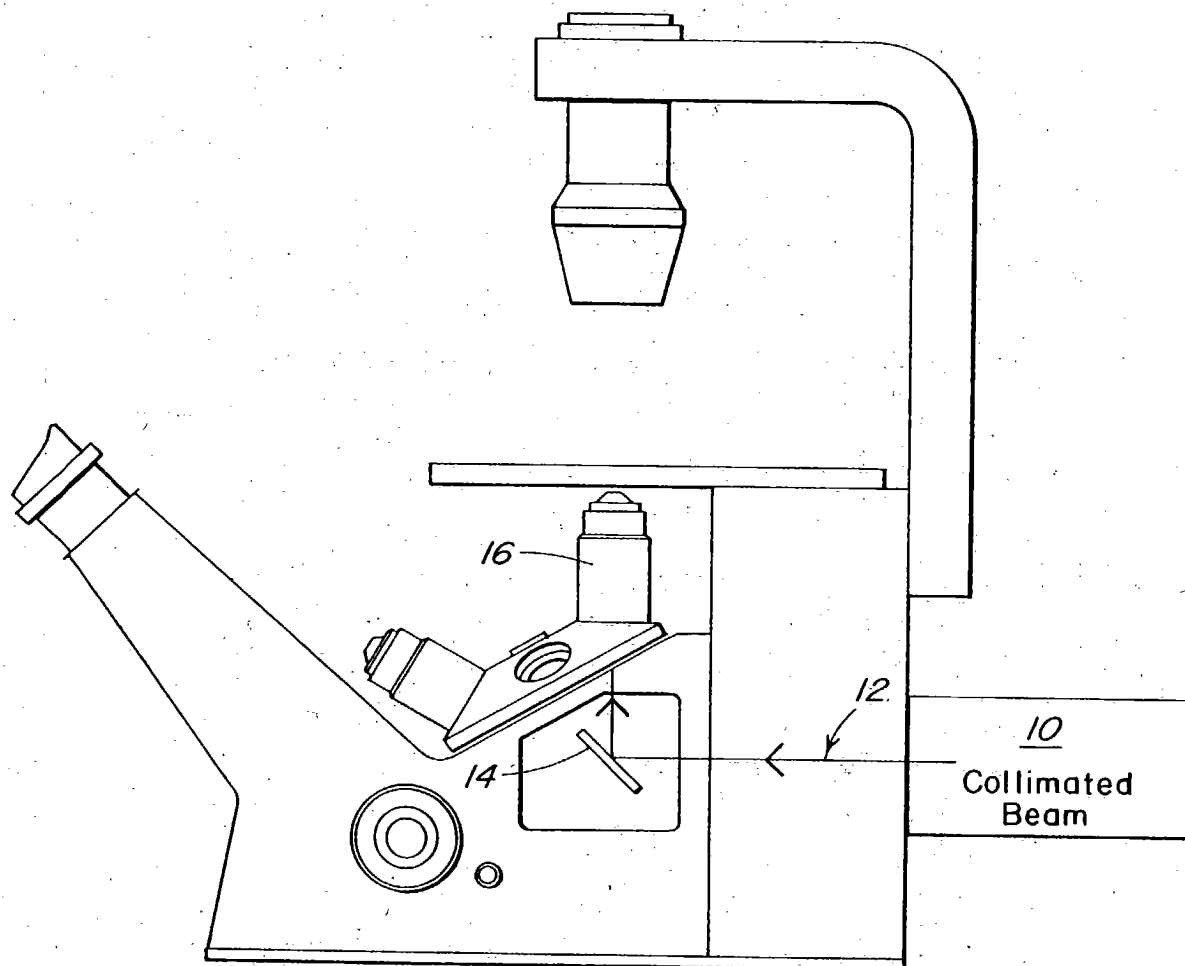


FIG. 1A
(PRIOR ART)

2/20

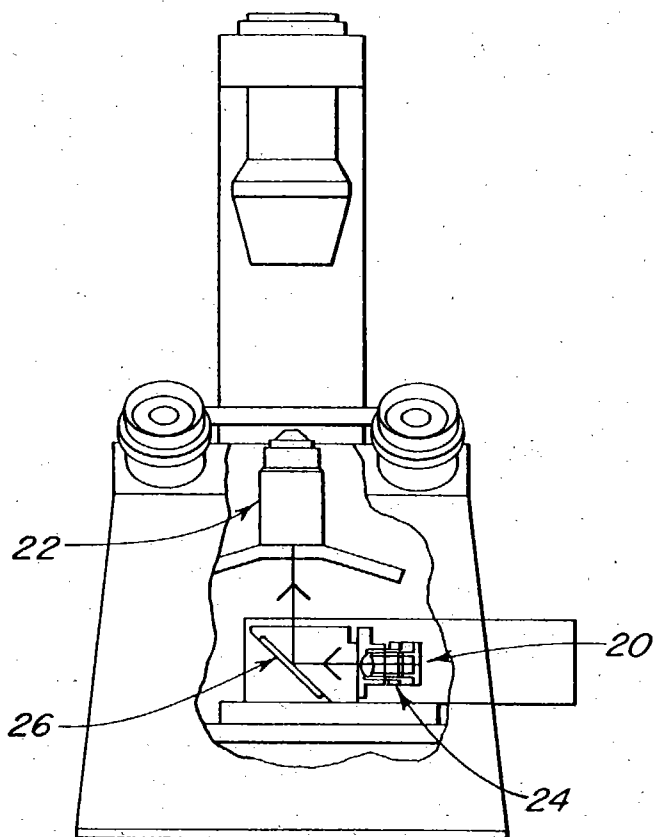


FIG. 1B
(PRIOR ART)

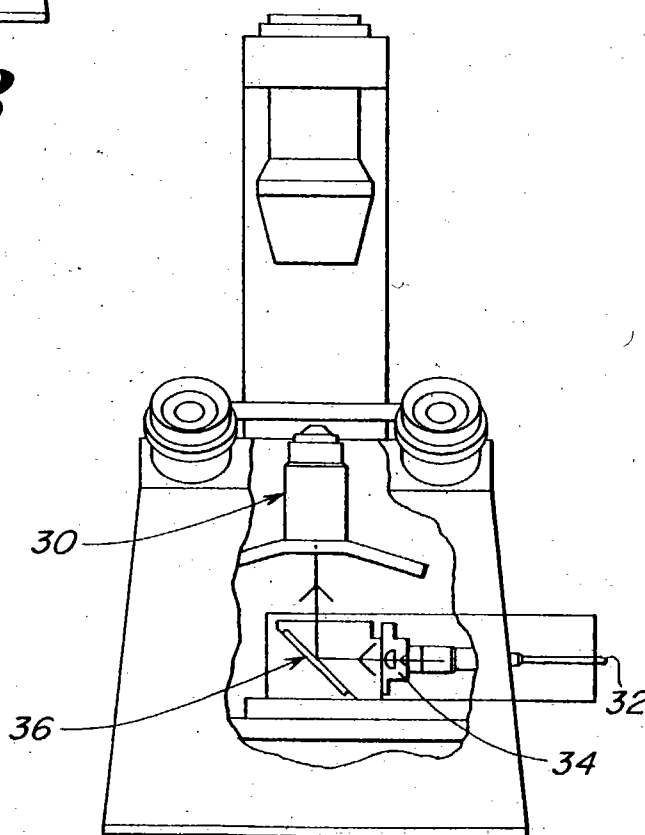
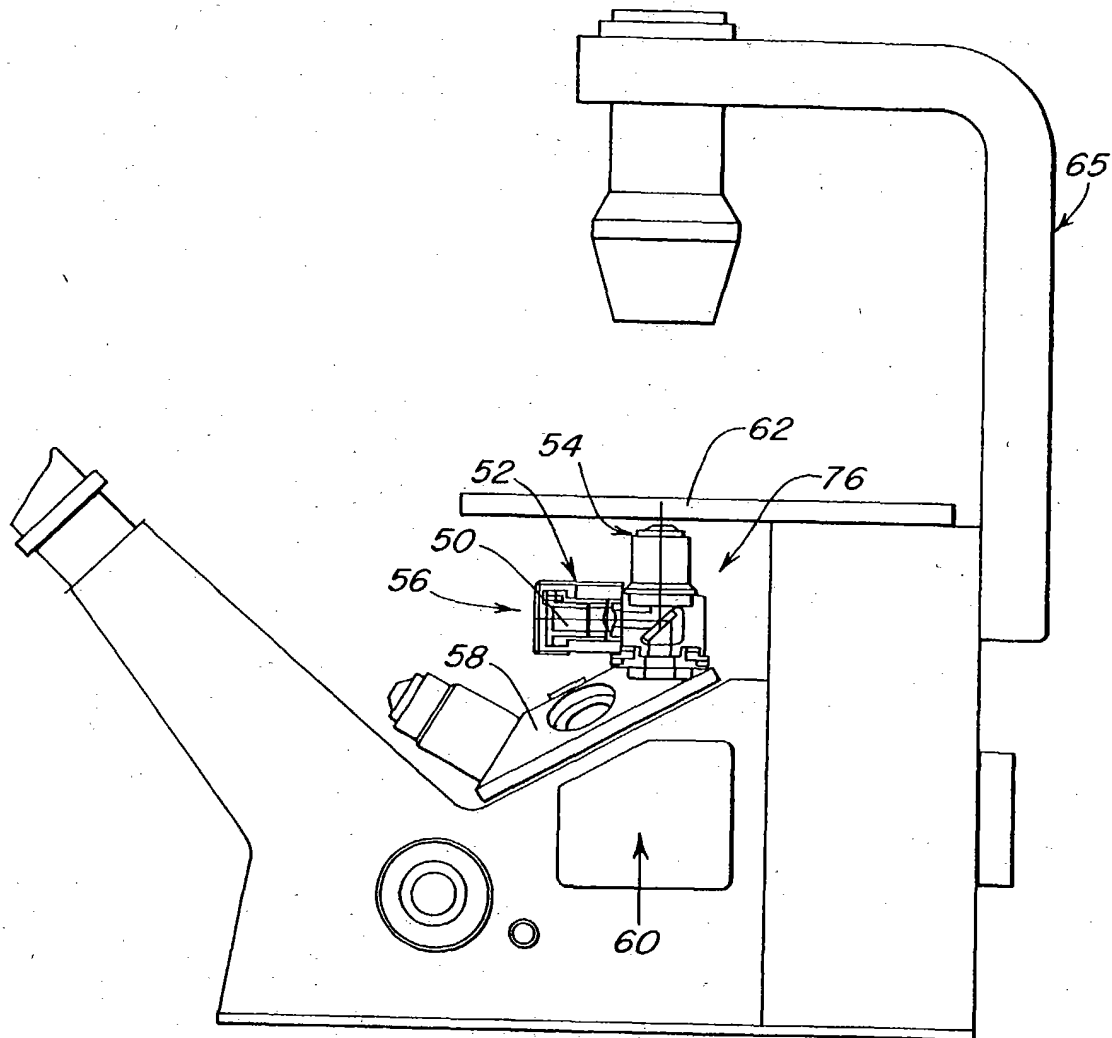
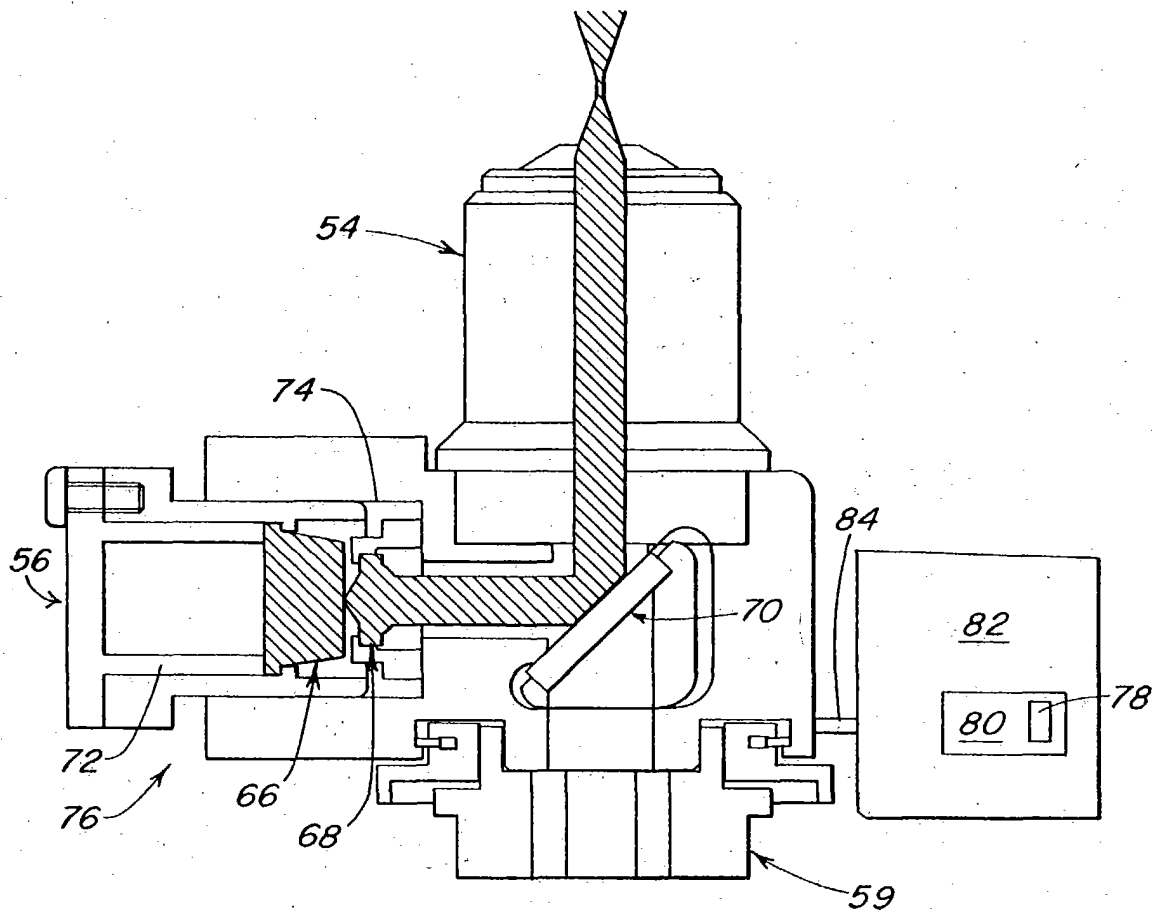


FIG. 1C
(PRIOR ART)

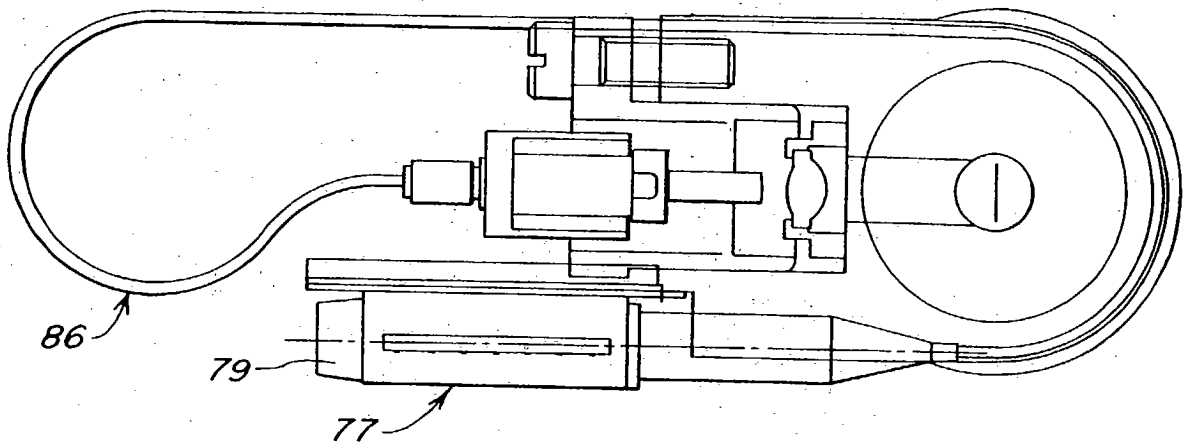
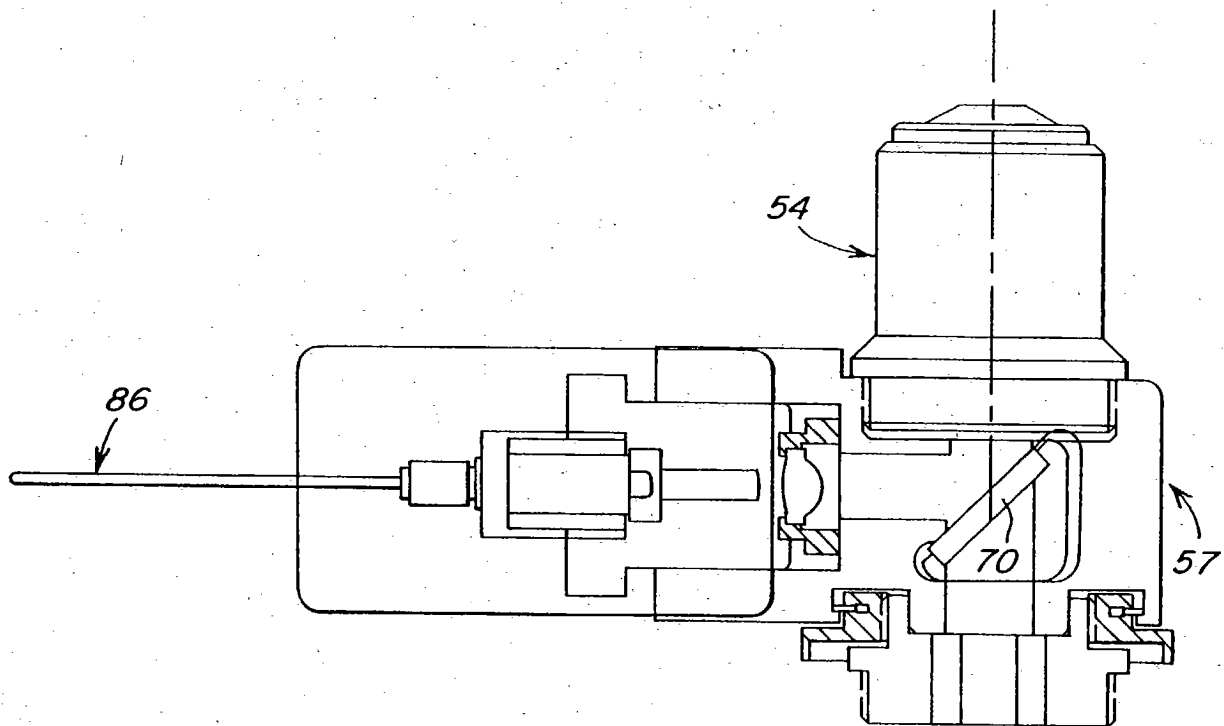
3/20

**FIG. 2A**

4/20

**FIG. 2B**

5/20

**FIG. 3A****FIG. 3B**

6/20

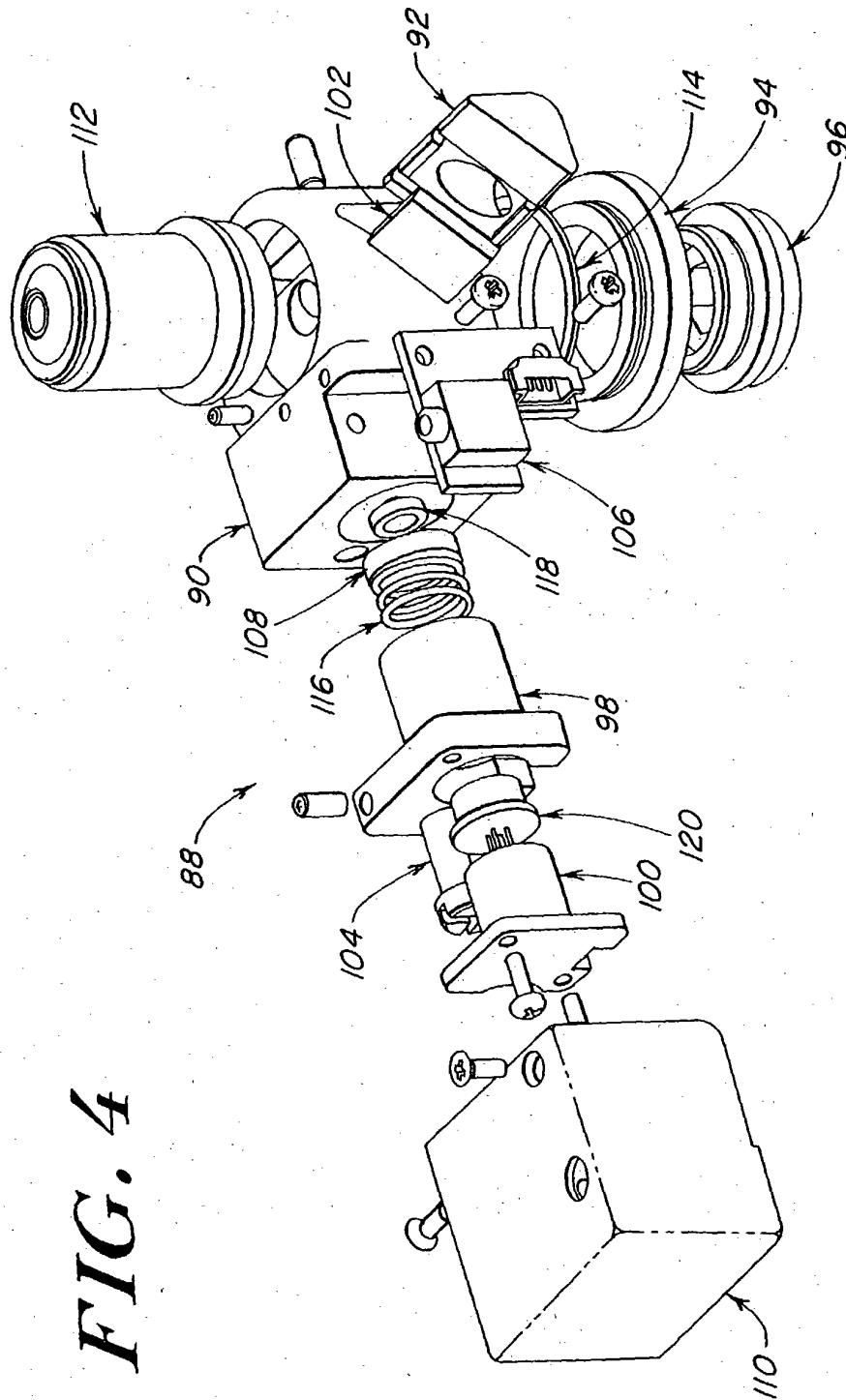


FIG. 4

10/20

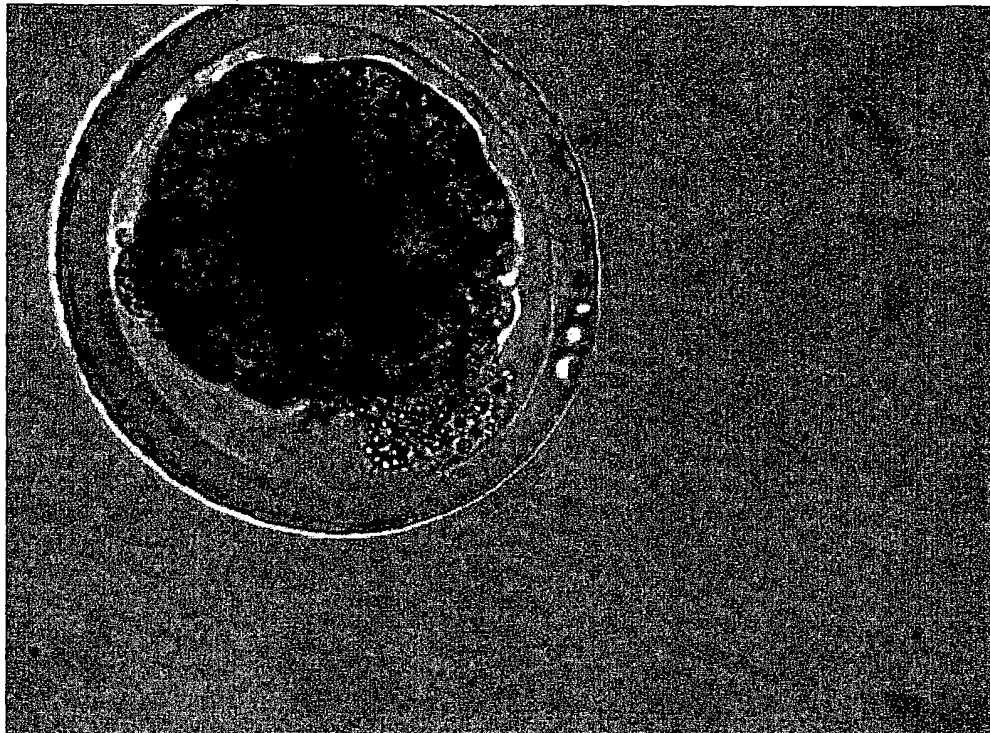


FIG. 8

9/20

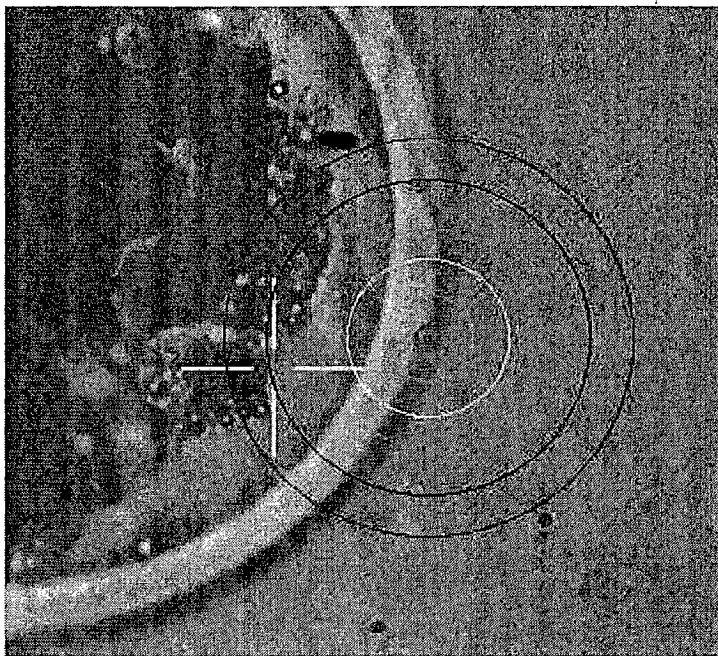


FIG. 7

8/20

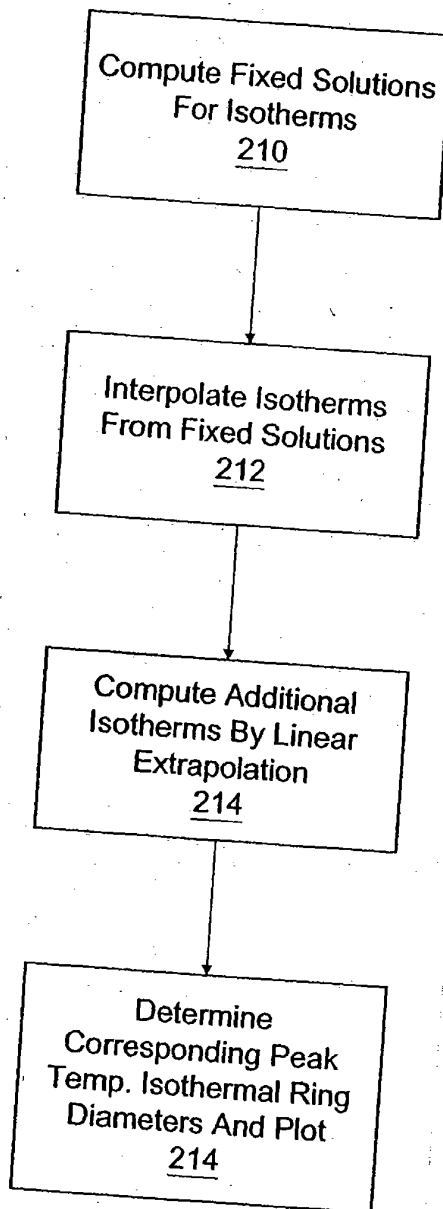
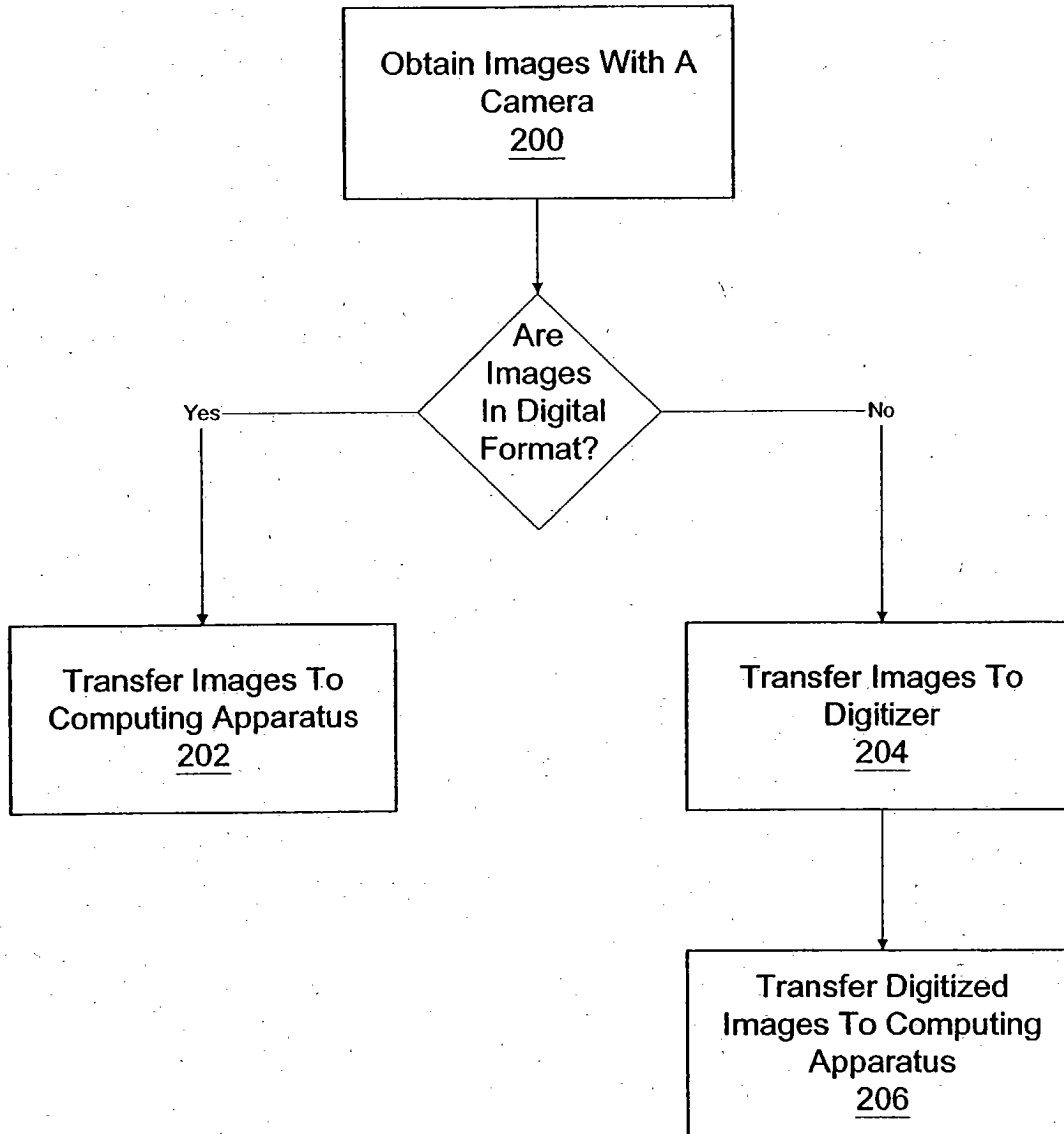


FIG. 6

7/20

*FIG. 5*

App No.: Not Yet Assigned

Docket No.: HTS-035DV

Inventor: Thomas G. Kenny, et al.

Title: METHOD FOR CALCULATING AND DISPLAYING THE
ISOTHERMAL CONTOURS PRODUCED BY A LASER

11/20

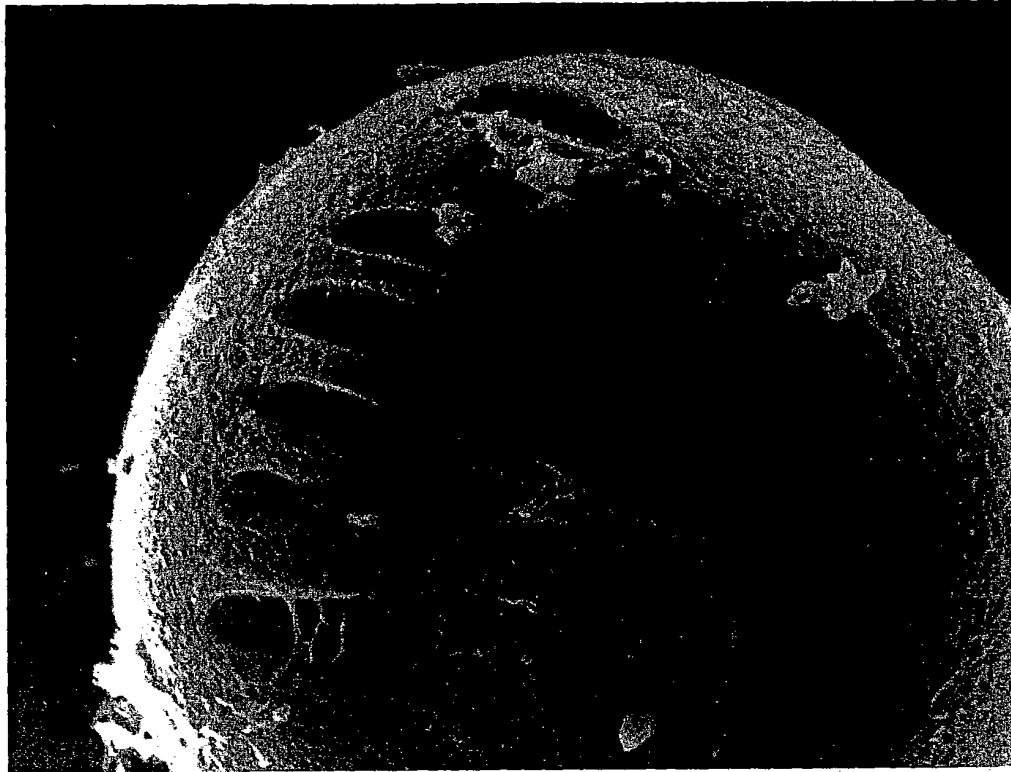


FIG. 9A

12/20

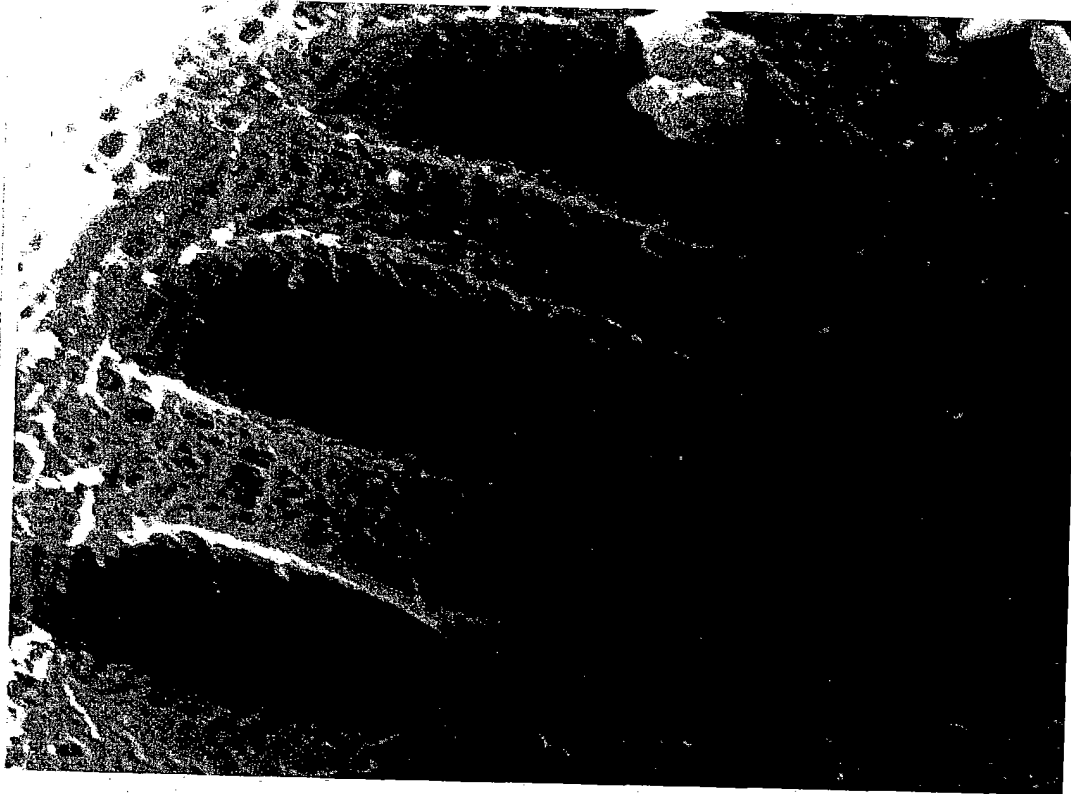


FIG. 9B

13/20

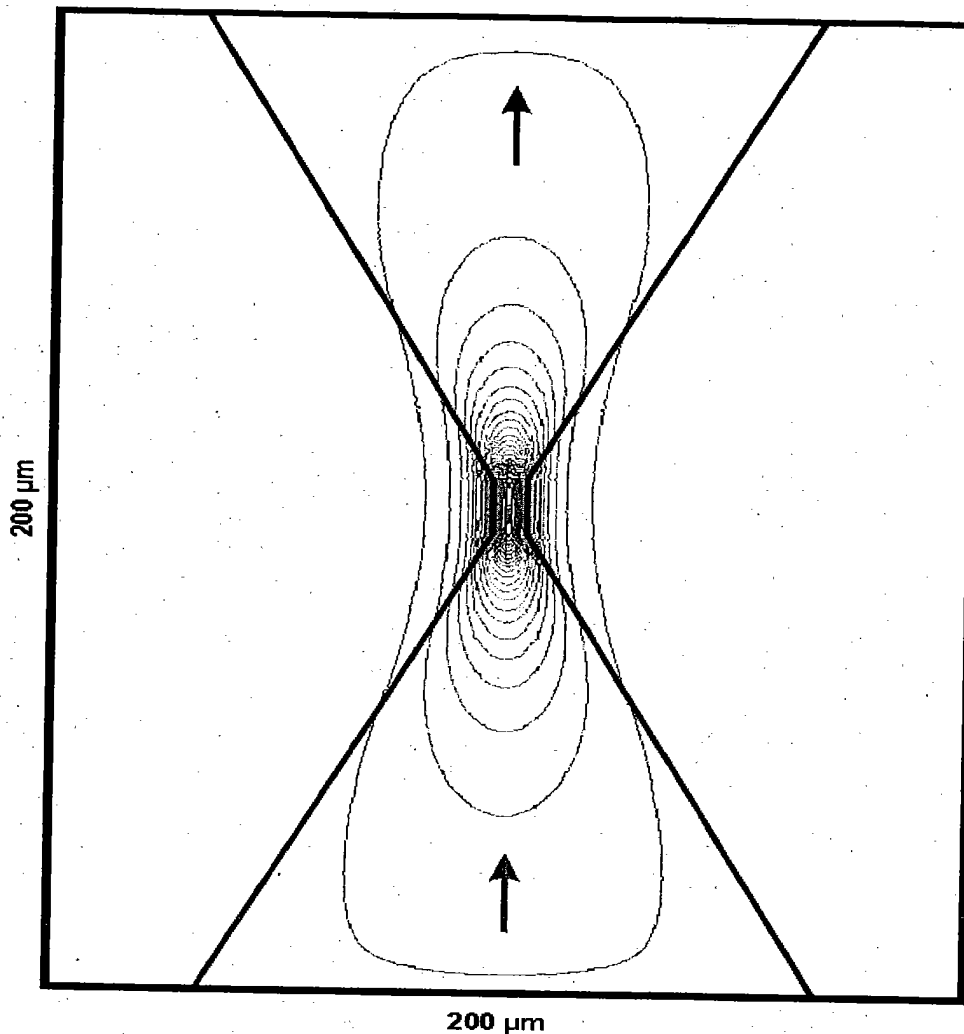


FIG. 10A

14/20

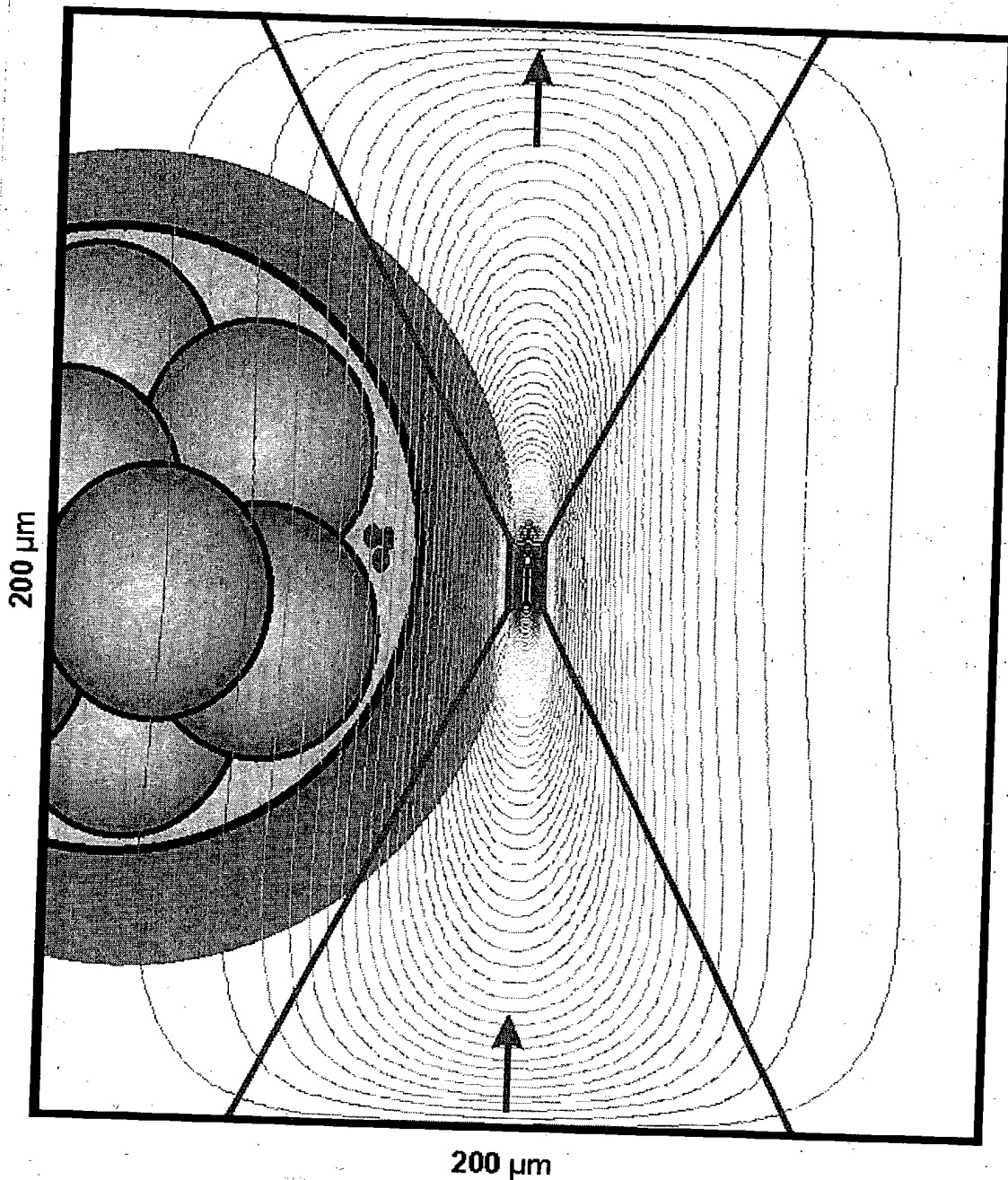
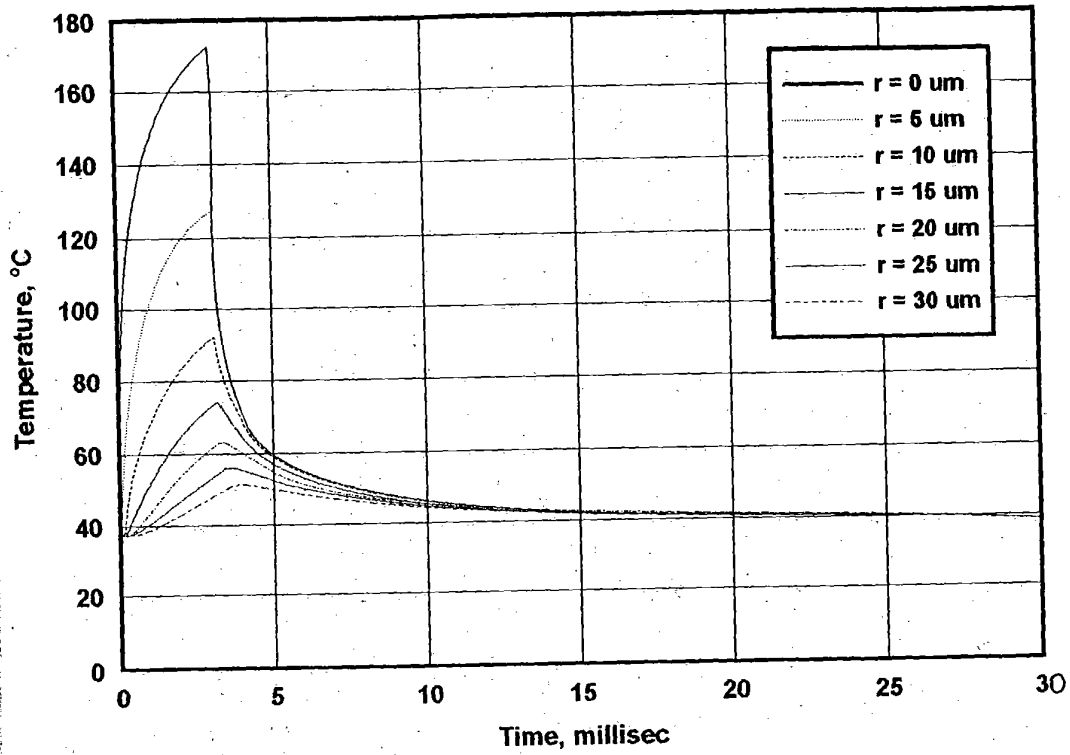
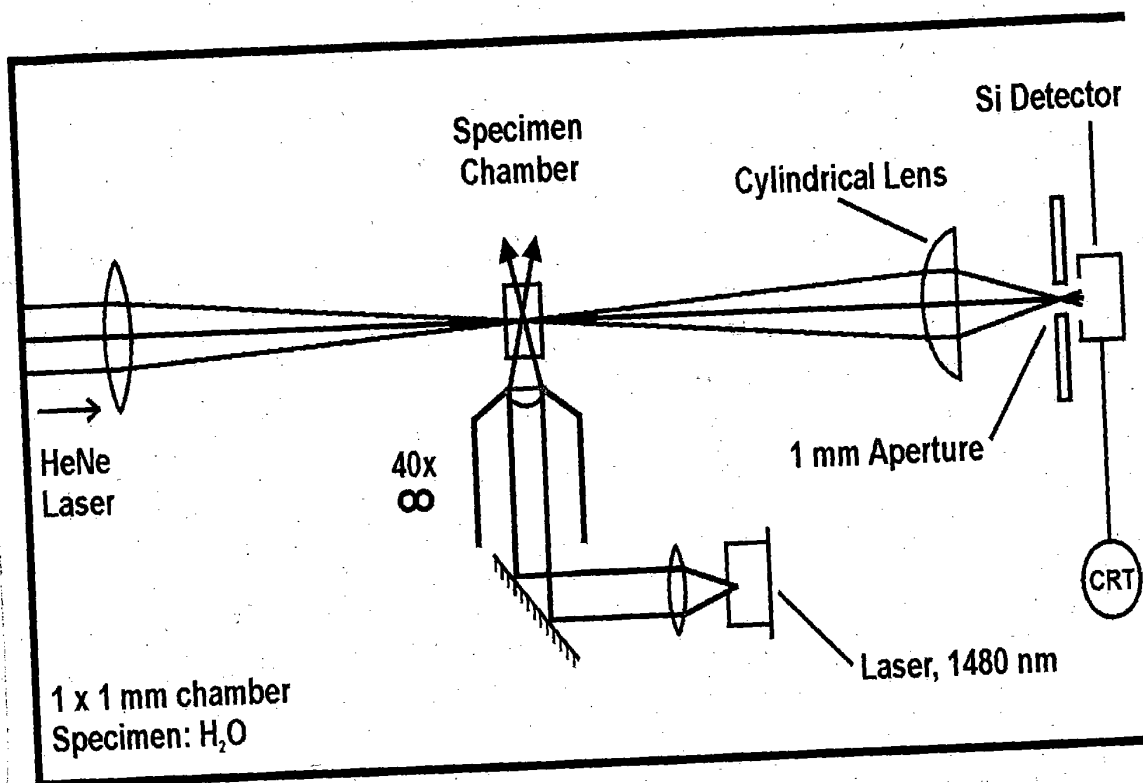


FIG. 10B

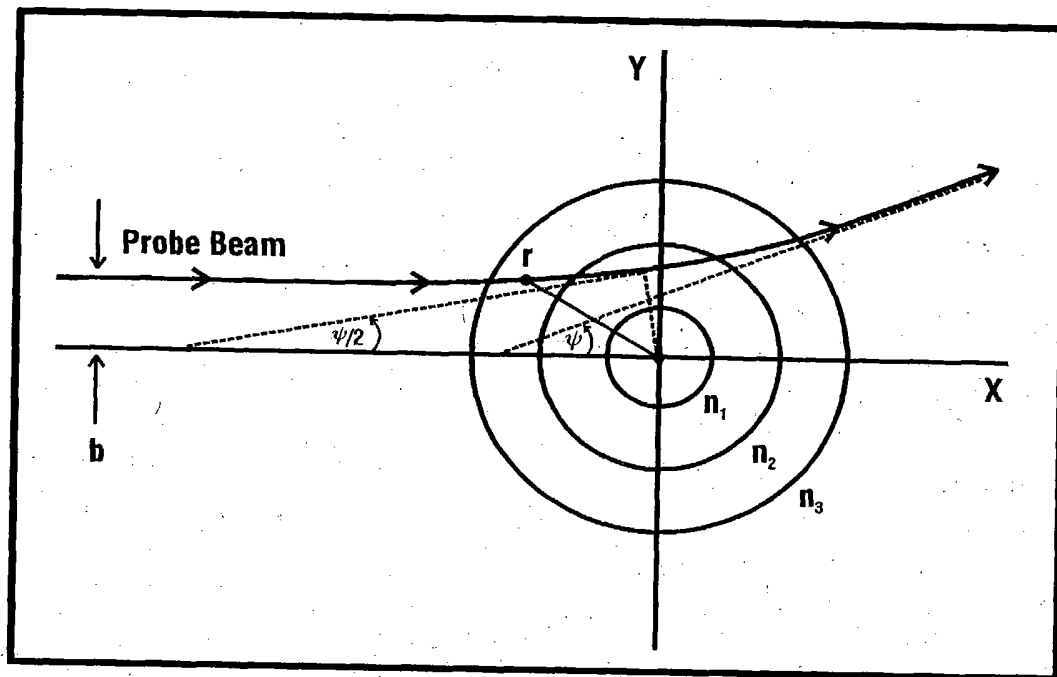
15/20

*FIG. 11*

16/20

*FIG. 12*

17/20

*FIG. 13*

18/20

Exptl and predicted max. steering angle of probe beam,
vs delivered beam power in water.

Pulse duration 1 - 25 ms. Beam radius 3 micron.

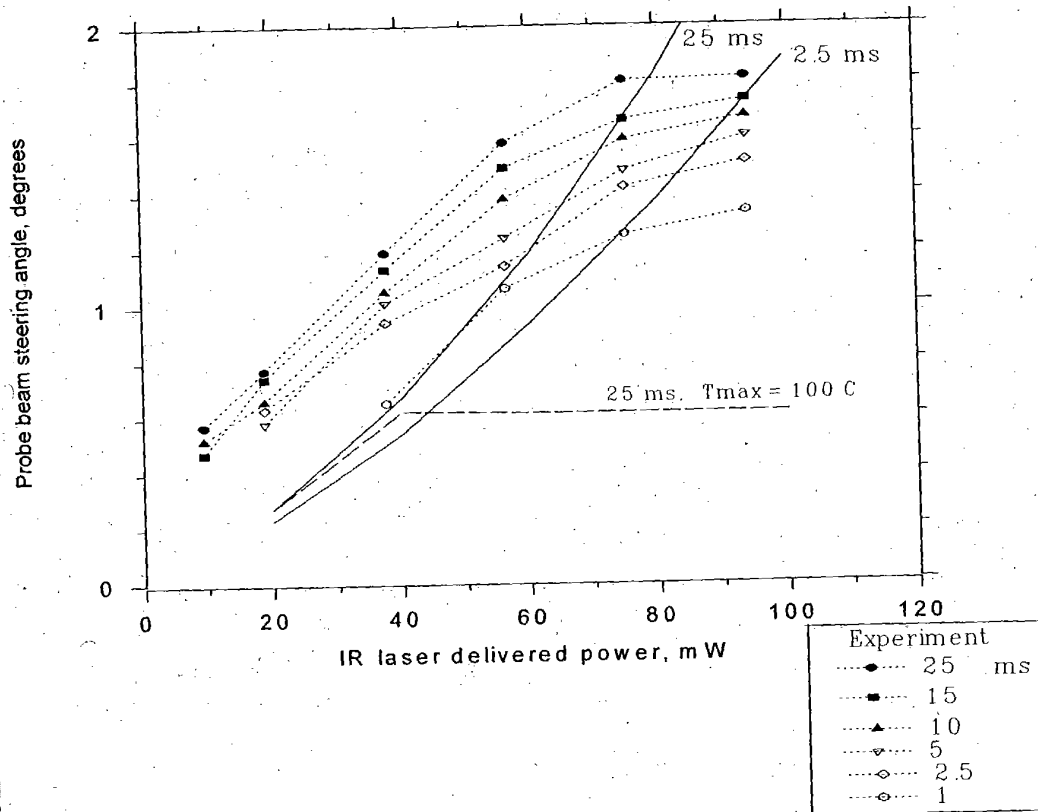
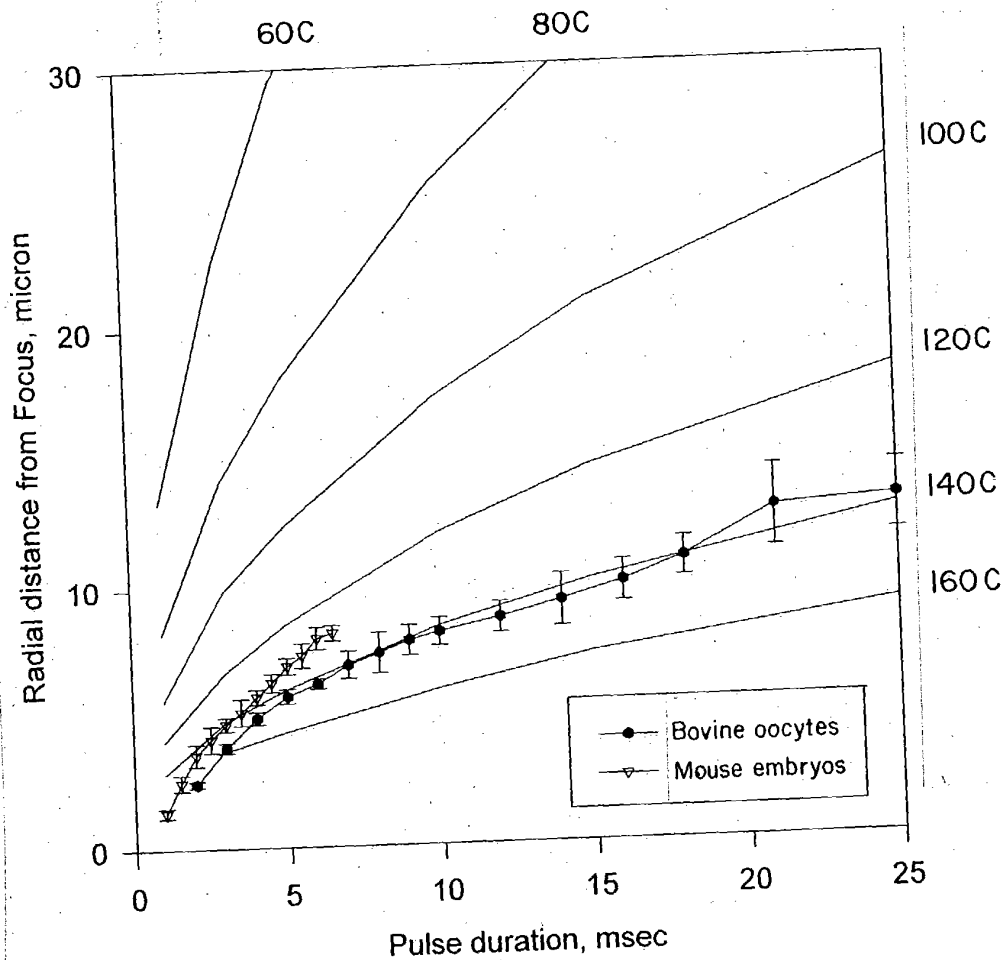


FIG. 14

19/20

**ZP Drilled Trench Diameter vs Peak temperature
for various pulse length, radial position.
Power: 100 mW. Beam focal radius: 3 micron**



3 Bovine oocytes
2 Mouse Embryos

FIG. 15

20/20

**Temperature at radius 20 micron
vs Pulse Duration, various Powers.
Beam radius 3 micron.**

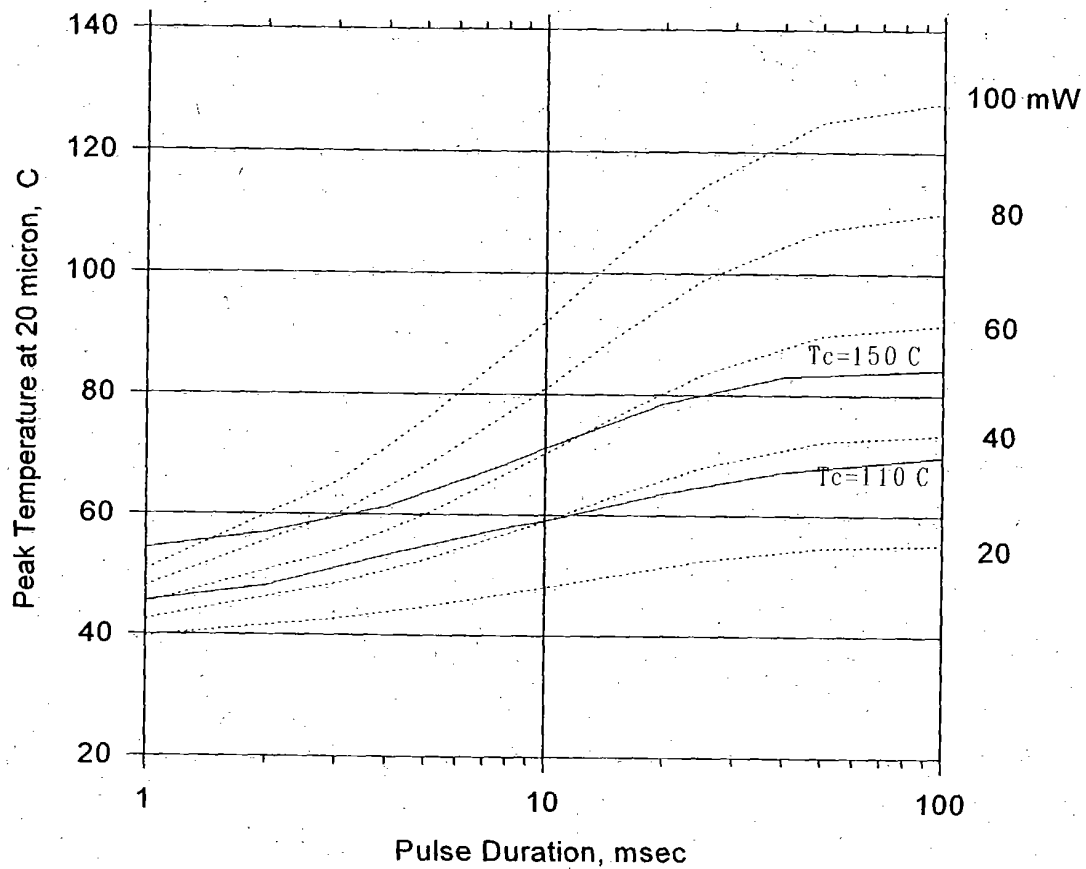


FIG. 16